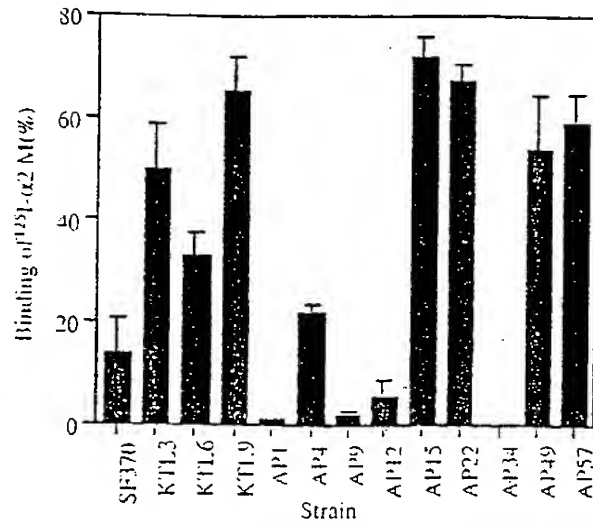
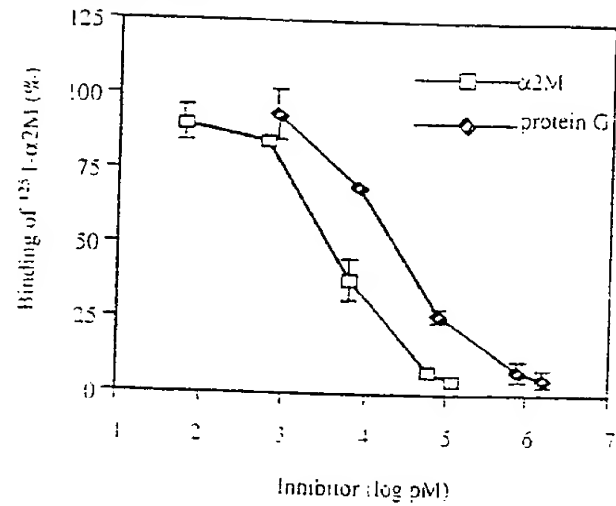


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A.



B.



C.

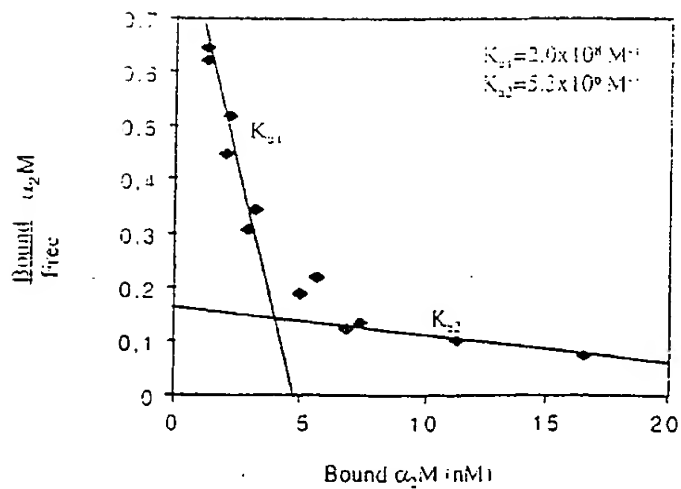
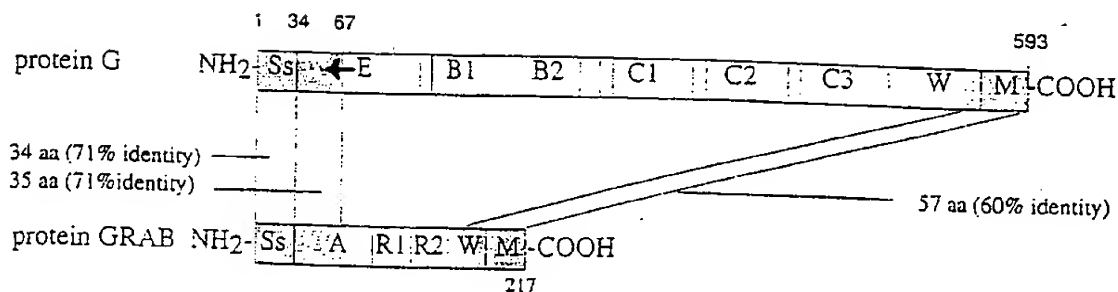


FIG. 1

A.

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B.

```

TTTCCAAATTATCGGTAATTTAATATGCTAATGCATATAAAAAATAAAAAAGGAGAAACA 60
ATGGGAAAAAGAAATAAAAGTGAAATGCTTTTTGCGTAGATCAGCTTTTGGATTAGTTGCG 120
M G K E I K V K C F L R R S A F G L V A 20
└─┬─> Ss
GTGTCAGCATCAGTATTAGTCGGTTCAACAGTATCTGCTGTTGACTCACCTATCGAACAG 180
V S A S V L V G S T V S A V D S P I E Q 40
└─┬─> A
CCTCGAATTATCCAAATGGCGGAACCTTAACATACTTCTTGGCAATGCTCCAGAAAAA 240
P R I I P N G G T L T N L L G N A P E K 60
CTGGCATTACGTAATGAAGAAAGAGCCATTGATGAATTAAAAAACAAGCTATTGAGGAT 300
L A L R N E E R A I D E L K K Q A I E D 80
AAAGAAGCTACGACAGCTATAGAAGCAGCAAGTTCAGATGCCTTAGAAGCATTAGCGGAT 360
K E A T T A I E A A S S D A L E A L A D 100
└─┬─> R1
CAAACAGACGCTTTACAATCAGAAGAAGCTGCGGTTGTTAAAGCGGATAACGCTGCTAGT 420
Q T D A L Q S E E A A V V K A D N A A S 120
└─┬─> R2
GACGCCTTAGAAGCATTGGCGGATCAACAGACGCTTTACAATCAGAAGAAGCTGAAGTA 480
D A L E A L A D Q T D A L Q S E E A E V 140
GTTCAATCAGATAACGCTGCTAGTGACGCCTGGGAAAAAGCAGCAACTCCAATCGCTTTA 540
V Q S D N A A S D A W E K A A T P I A L 160
└─┬─> W
GATGTTAAGAAAACTAAAGATACAAAACCTGTAGTTAAAAAAGAAGAAAGACAAAACGTT 600
D V K K T K D T K P V V K K E E R Q N V 180
AATACCTTCCTACAACCTGGTGAAGAGTCTAACCCATTCTTTACAGCTGCTGCGCTTGCA 660
N T L P T T G E E S N P F F T A A A L A 200
└─┬─> M
ATAATGGTAAGTACAGGTGTGTTAGTTGTAAGTTCAAAGTGCAAAGAAAATTAGTTGCTAT 720
I M V S T G V L V V S S K C K E N 217
TTGTTCTAGCAAATGAAACAAGGGAATCGAAAGATTCTCTTTTT 764

```

FIG. 2

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A.

<u>Strain</u>	<u>Serotype</u>	<u>Size of PCR product</u>	<u>Putative number of repeats</u>
AP1	1	500	2 ¹
KTL3	1	500	2 ¹
KTL6	1	500	2
KTL9	1	650	4 ¹
AP4	4	500	2
AP9	9	NA ²	-
AP12	12	500	2
AP15	15	850	6
AP22	22	650	4
AP34	34	650	4
AP49	49	750	5 ¹
AP57	57	500	2

¹Confirmed by sequencing²Not amplifiable

B.

SF370	NH ₂		R	R			-COOH
KTL3	NH ₂		R	R			-COOH
AP1	NH ₂		R	R			-COOH
KTL9	NH ₂		R	R	R	R	-COOH
AP49	NH ₂		R	R	R	R	-COOH
		57/58 aa identical	48/56 aa identical		-	41/42 aa identical	

FIG. 3

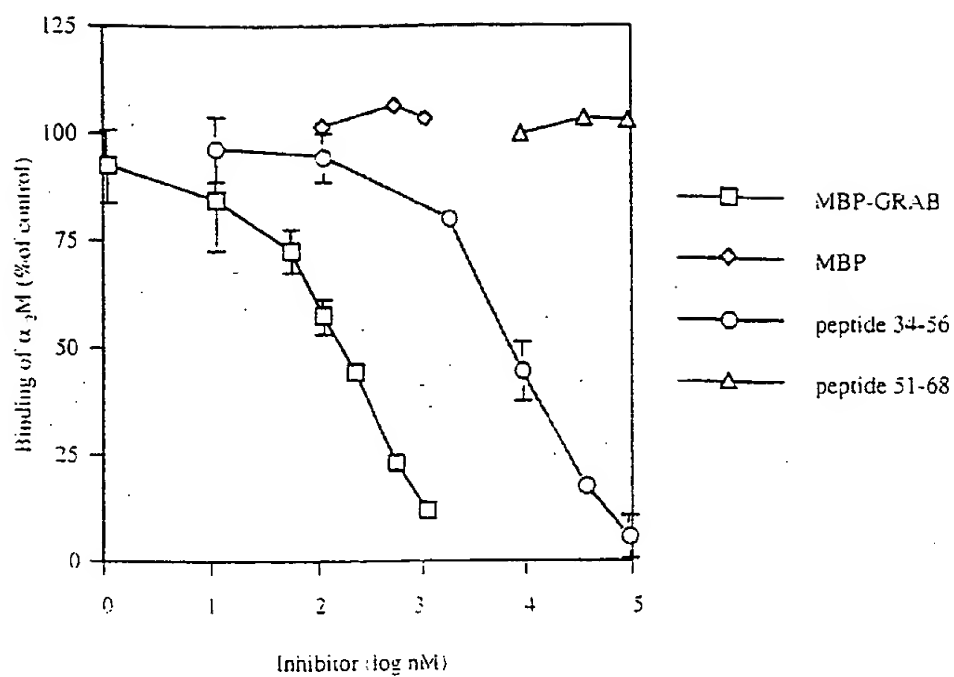


FIG. 4

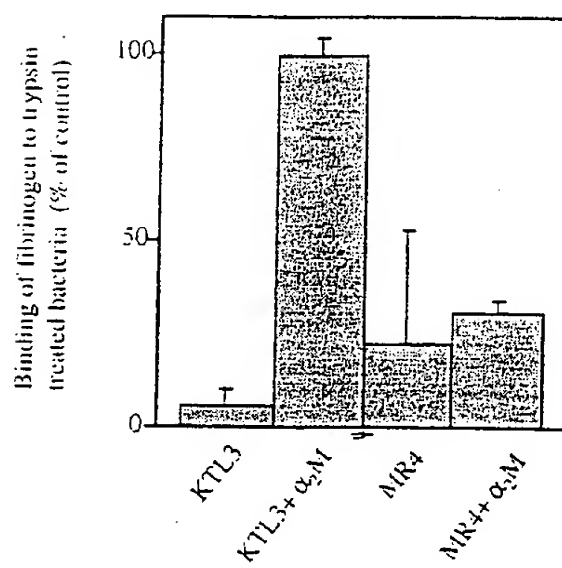


FIG. 6

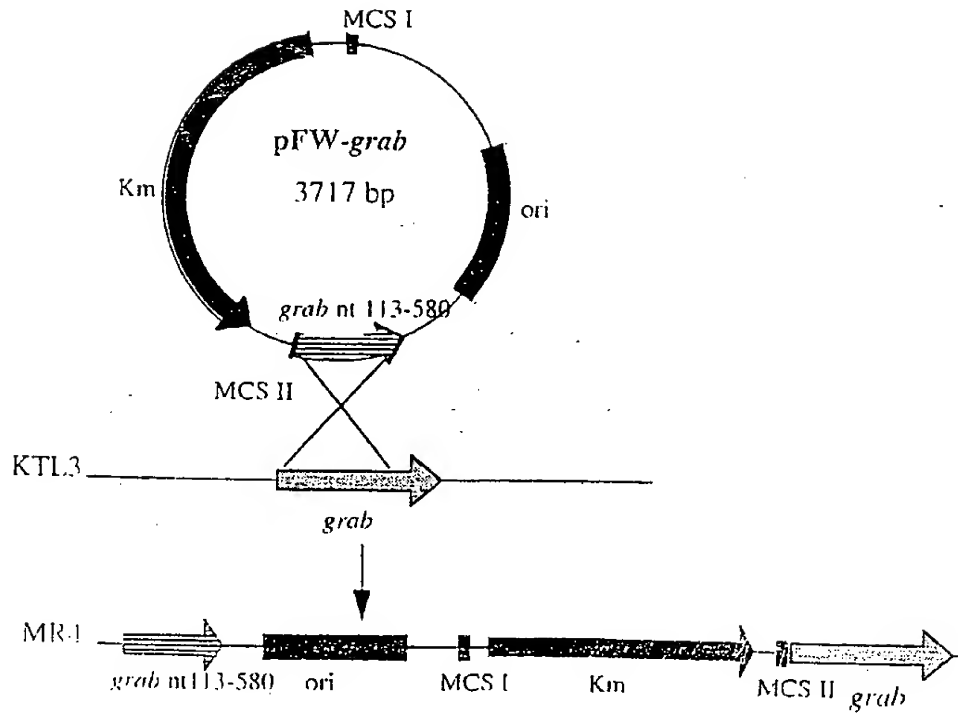


FIG. 5

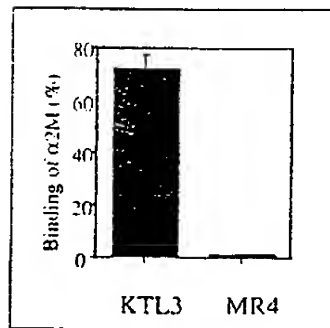


FIG. 5

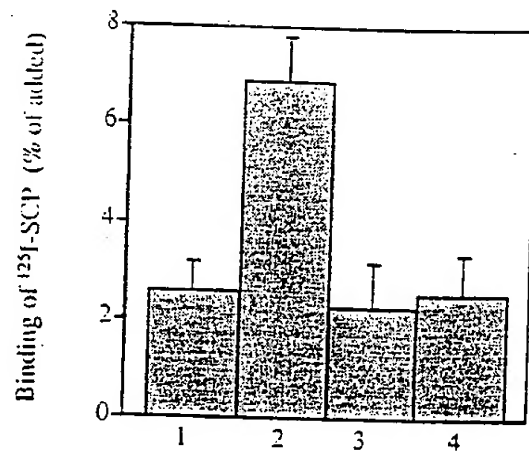


FIG. 7

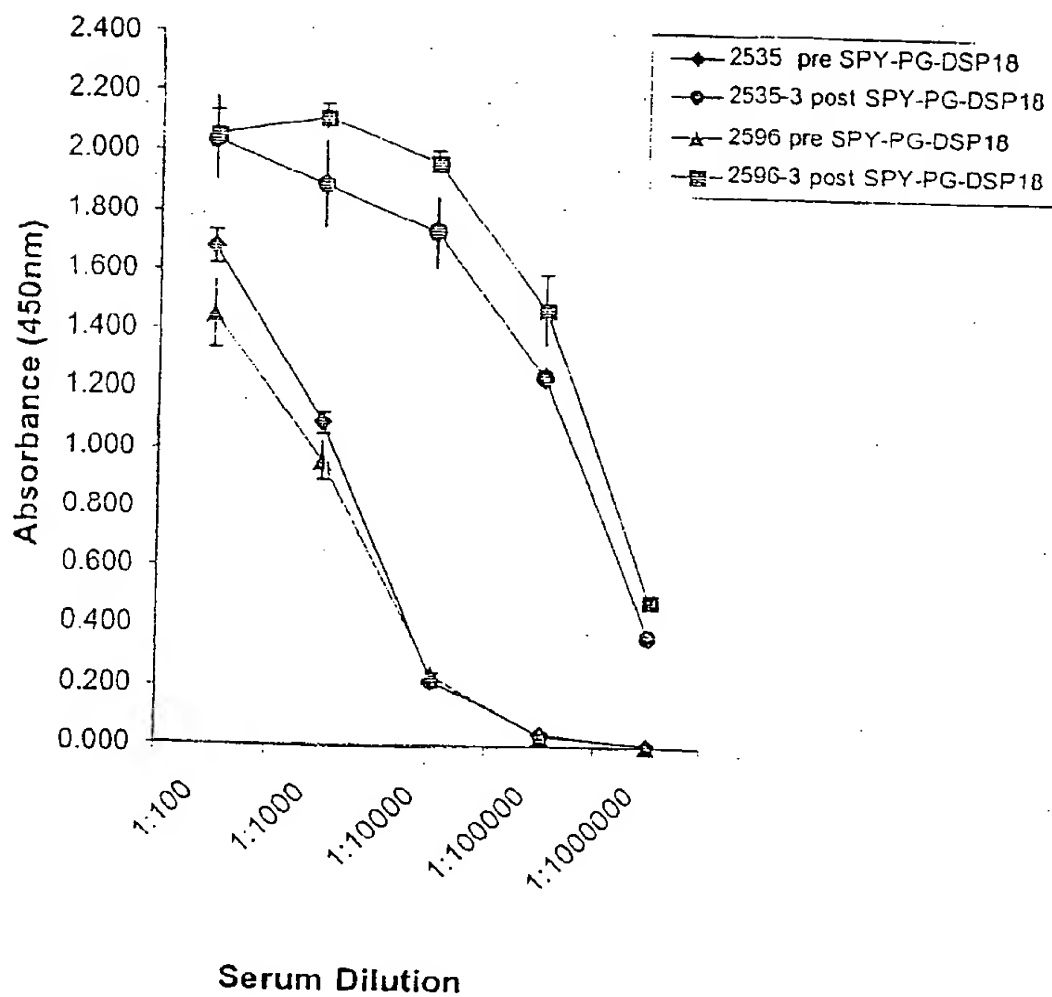


FIG. 8

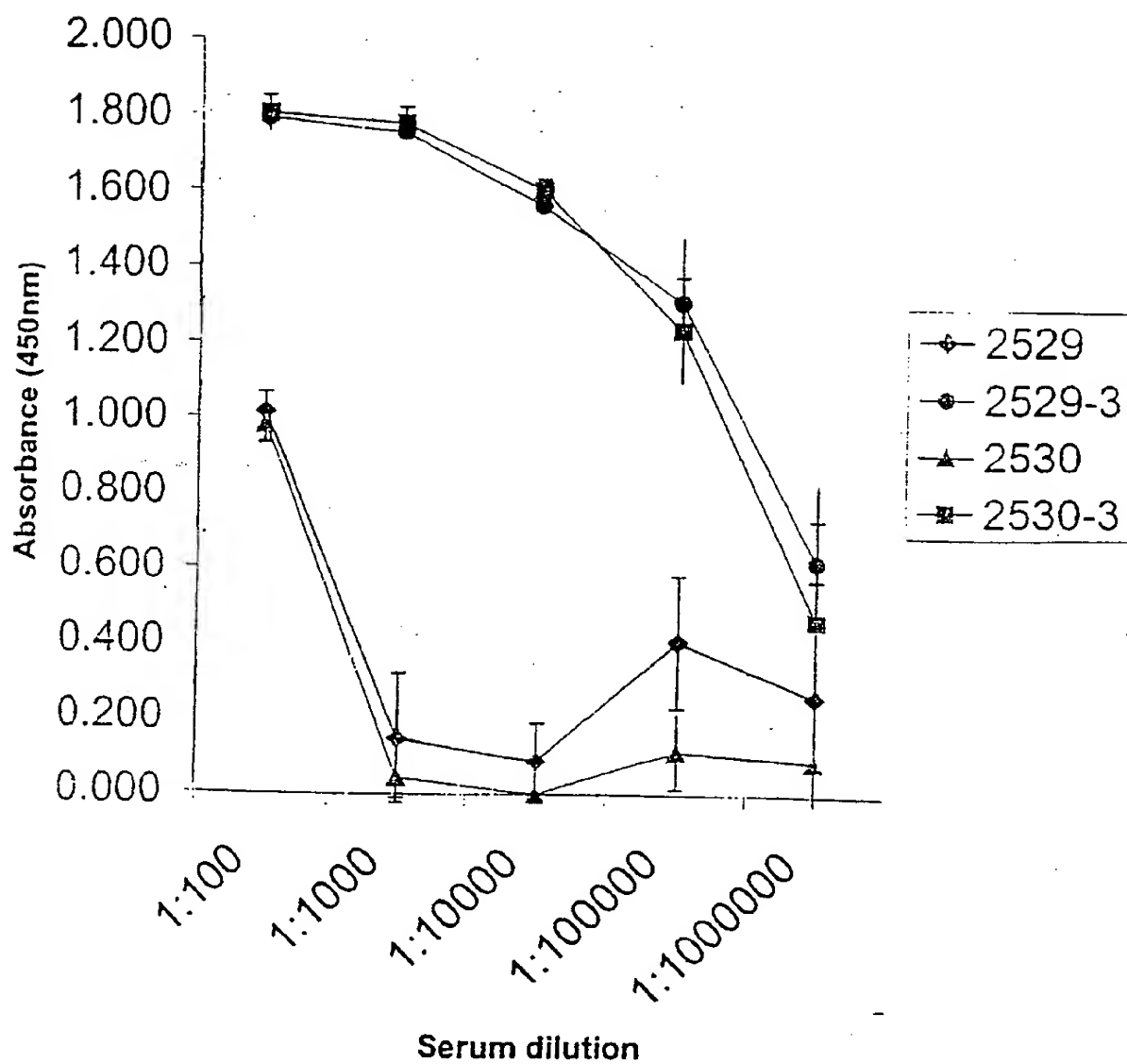
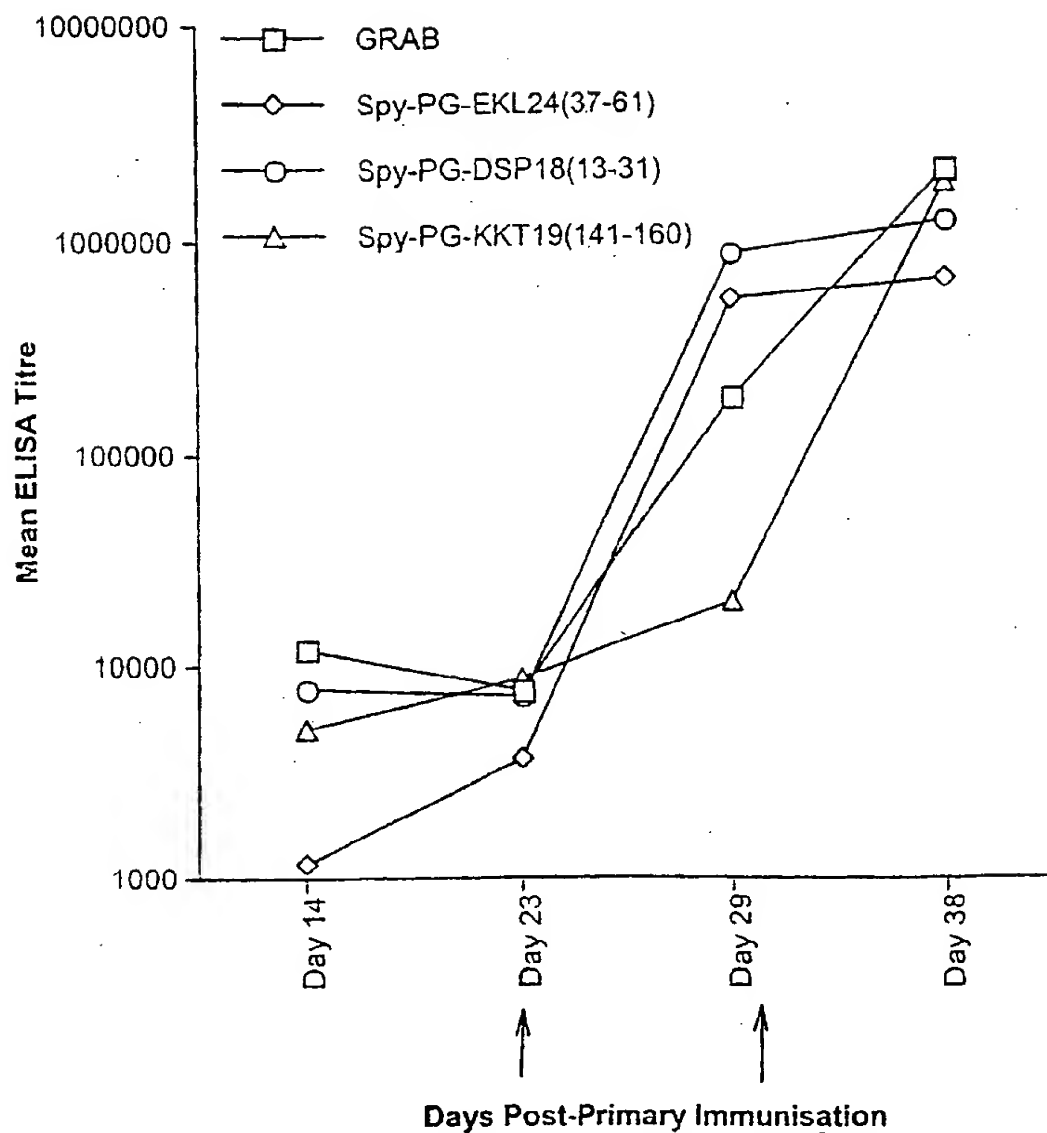


FIG. 9



• Arrows indicate boost.

Boost 1= 30 µg

Boost 2= 15 µg

FIG. 10

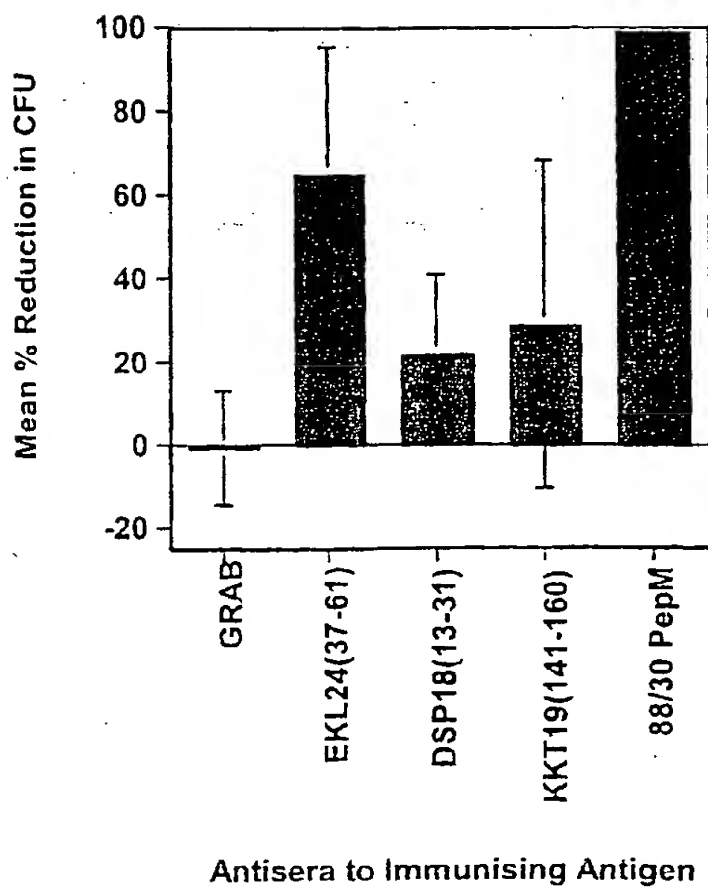


FIG. 11